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M. V. Mokrousov. NEW AND LITTLE-KNOWN CRABRONID WASPS OF THE SUBFAMILY PHILANTHINAE (HYMENOPTERA: CRABRONIDAE) FROM RUSSIA – Far Eastern Entomologist. 2017. N 335: 12-19.

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Summary. An annotated list of 14 species from three genera of the subfamily Philanthinae is given. Ten species are newly recorded from Russia; the distribution of three species is enlarged. New synonymy is proposed for *Cerceris adelpha* Kohl, 1887 = *C. associa* Kohl, 1898, **syn. n.** and *Philanthus glaber* Kohl, 1891 = *Ph. rubriventris* Kazenas, 1970, **syn. n.**, = *Ph. kaszabi* Tsuneki, 1971, **syn. n.** The lectotypes are designated for *C. shestakoviana* Gussakovskij, 1952 and *C. vitticollis* F. Morawitz, 1894.

Key words: Crabronidae, Philanthinae, fauna, new records, new synonymy, Russia.

М. В. Мокроусов. Новые и малоизвестные виды роющих ос подсемейства Philanthinae (Hymenoptera: Crabronidae) в фауне России // Дальневосточный энтомолог. 2017. N 335. С. 12-19.

Резюме. Приведен аннотированный список 14 видов из 3 родов подсемейства Philanthinae (Hymenoptera: Crabronidae). Впервые для фауны России приводятся 10 видов, распространение еще 3 видов расширено. Предложена новая синонимия: *Cerceris adelpha* Kohl, 1887 = *C. associa* Kohl, 1898, **syn. n.** и *Philanthus glaber* Kohl, 1891 = *Ph. rubriventris* Kazenas, 1970, **syn. n.**, = *Ph. kaszabi* Tsuneki, 1971, **syn. n.** Обозначены лектотипы для *C. shestakoviana* Gussakovskij, 1952 и *C. vitticollis* F. Morawitz, 1894.

Philanthinae is one of the largest subfamilies of digger wasps of family Crabronidae and most diverse in the arid regions. There are about 1150 species in 8 genera in the world (Pulawski, 2016).

This paper is based on the vast material collected in 2011–2016 in the southeast of the European part of Russia, on the collection of the Zoological Institute (St. Petersburg) and additional material collected by M.Yu. Proshchalykin and V.M. Loktionov in the Altai Republic in 2016. Material is deposited in Zoological Institute, St. Petersburg [ZISP], Zoological Museum of Moscow University [ZMMU] and in M.V. Mokrousov personal collection [MC]. Photographs of *Cerceris* spp. were taken with a digital camera Canon EOS 50D with objective Canon Macro Lens EF 100 mm. The classification of Philanthinae follows Pulawski (2016); the distribution outside of Russia follows Pulawski (2016) and Kazenas (1984). New records are asterisked (*). Abbreviations for the collectors: SB – S.A. Belokobylskij, VL – V.M. Loktionov, MM – M.V. Mokrousov, MP – M.Yu. Proshchalykin.

LIST OF THE SPECIES

Subfamily Philanthinae

Tribe Cercerini

Genus *Cerceris* Latreille, 1802

***Cerceris adelpha* Kohl, 1887**

Cerceris adelpha Kohl in Schletterer, 1887: 447, ♀, lectotype (design. by Kohl, 1916), ♀, Korea [Institute of Systematics and Evolution of Animals, Kraków, Poland].

Cerceris associa Kohl, 1898: 348, ♀, holotype, ♀, [Russia] Irkutsk [Naturhistorisches Museum, Wien, Austria], **syn. n.**

SPECIMENS EXAMINED. **Russia:** Jewish Autonomous Prov., Birakan, Mal. Khingan, 9.VIII 1927 (A. Larvi), 2♀ [ZISP]; Amurskaya Prov.: 11.VIII 1928 (Tupitsyn), 1♀ [ZISP]; Blagoveshchensk, 22.VII 1928 (Tupitsyn), 1♀ [ZISP]; Khabarovsk Terr., near Bogorodskoe, 22.VIII 1911 (Soldatov), 1♀ [ZISP]; Primorskiy Terr.: Yakovlevka, 12.IX 1926 (Filip'ev), 1♀ [ZISP]; Slavyanka, 22.VII 1911 (Radzevskij), 2♀ [ZISP]. **Mongolia** (4♀, 8♂) [ZISP].

DISTRIBUTION. Russia (Irkutsk Prov., Buryatia, Sakha Rep., Zabaikalskiy Terr., *Jewish Autonomous Prov., Amurskaya Prov., *Khabarovsk Terr., Primorskiy Terr.), Mongolia, China (Inner Mongolia, Heilongjiang), Korea.

DISCUSSION. In descriptions of *Cerceris adelpha* Kohl and *C. associa* Kohl indicates that both species are similar with *C. quinquefasciata* (Rossi, 1792), but differ by the shape of clypeus (Kohl, 1887, 1898). The shape of clypeus is the same as in *C. adelpha* and *C. associa*. Because of lacking any differences in the descriptions of both species and geographic isolation, I consider *C. associa* Kohl, 1898 as junior synonym of *C. adelpha* Kohl, 1887.

***Cerceris angelica* Kazenas, 1977**

Cerceris angelica Kazenas, 1977: 432, ♀, holotype, ♀, Kazakhstan, Panfilov [ZISP].

SPECIMENS EXAMINED. **Kazakhstan** (holotype, ♀; paratypes, 4♀; 4♂) [ZISP]. **Russia:** Astrakhan Prov.: near Volzhski vill., 46.965°N 47.53°E, 5–9.VIII 2016 (MM), 2♀, 4♂ [MC]; near Zamyany vill., 46.816°N 47.616°E, 22.VIII 2015 (MM), 6♀, 3♂ [MC]; Kalmykia, 20 km E Khulhuta, Davsna sands, 46.292°N 46.672°E, 15.VII 2015 (SB, VL, MM, MP), 6♀, 4♂ [MC, ZISP]. **Uzbekistan:** Kattakurgan distr., 1♂ [ZISP].

DISTRIBUTION. *Russia (Astrakhan Prov., Kalmykia), Kazakhstan, Turkmenistan, *Uzbekistan.

***Cerceris errata* Shestakov, 1918**

Cerceris errata Schletterer, 1887: 420; Kohl, 1916: 117. Misidentification.

Cerceris errata Shestakov, 1918: 131, 144, ♀, ♂, syntypes: Uzbekistan, Maracanda [Samar-kand], river Jaxartes [Syrdarya] [Naturhistorisches Museum, Wien, Austria].

SPECIMENS EXAMINED. **Russia:** Kalmykia, 20 km E Khulhuta, Davsna sands, 46.292°N 46.672°E, 15–16.VII 2015 (SB, VL, MM, MP), 3♀, 5♂ [MC, ZISP]. **Kazakhstan** (3♀, 2♂) [ZISP]. **Turkmenistan** (4♀, 1♂) [ZISP]. **Uzbekistan** (9♀, 3♂) [MC, ZISP].

DISTRIBUTION. *Russia (Kalmykia), Kazakhstan, Turkmenistan, Uzbekistan.

***Cerceris hohlbecki* Shestakov, 1914**

Cerceris hohlbecki Shestakov, 1914: 94, ♀, holotype, ♀, Turkmenistan, Farab [ZISP].

SPECIMENS EXAMINED. **Turkmenistan** (holotype, ♀; 7♀, 9♂) [ZISP]. **Russia:** Astrakhan Prov., 13 km S Liman, 45.672°N 47.24°E, 26.VII 2015 (SB, VL, MM, MP), 1♂ [MC]; Dagestan: Alexandro-Nevskoe, 13 km NW Kizlyar, 11.VI 1927 (Olsuf'ev), 1♂ [ZISP];

17 km SSW Artezian, Kuma riv., 44.935°N 46.455°E, 2–4.VI 2016 (MM), 2♀, 8♂ [MC, ZISP]. **Kazakhstan** (1♂) [ZISP]. **Uzbekistan** (3♀, 1♂) [ZISP]. **Kyrgyzstan** (1♂) [ZISP]. **Tajikistan** (2♀, 2♂) [ZISP].

DISTRIBUTION. *Russia (Astrakhan Prov., Dagestan), Armenia, Kazakhstan, Turkmenistan, Uzbekistan, Kyrgyzstan, Tajikistan.

REMARK. The specimens from Russia have less developed light coloration; females with black clypeus (except clypeal projection) and reddish legs.

***Cerceris kuznetzovi* Kazenas, 1984**

Cerceris kuznetzovi Kazenas, 1984: 139, ♀, ♂, holotype, ♀, Kazakhstan, 5 km SW Balkhash [ZISP].

SPECIMENS EXAMINED. **Kazakhstan** (holotype, ♀; paratypes, 5♂) [ZISP]. **Russia**: Kalmykia, 9 km SW Komsomolskij, 45.286°N 45.927°E, 2.VI 2016 (MM), 1♂ [MC]. **Uzbekistan** (6♂) [MC, ZISP].

DISTRIBUTION. *Russia (Kalmykia), Kazakhstan, Uzbekistan.

REMARK. The specimen from Russia has less developed light coloration.

***Cerceris quadricolor* F. Morawitz, 1889**

Cerceris quadricolor F. Morawitz, 1889: 158, ♀, holotype, ♀, China, Shanxi, "Monasterium U-tai" [Wutaishan] [ZISP].

SPECIMENS EXAMINED. **China** (holotype, ♀) [ZISP]. **Russia**: Buryatia, Tchikoy riv., Dureny, 9.VII 1925 (Mikhno), 1♀ [ZISP]. **Mongolia** (1♂) [ZISP].

DISTRIBUTION. *Russia (Buryatia), Mongolia, China (Inner Mongolia, Heilongjiang, Shanxi).

***Cerceris shestakoviana* Gussakovskij, 1952**

Figs 1, 2

Cerceris (Apiraptrix) shestakoviana Gussakovskij, 1952: 282, ♀, ♂, syntypes: Tajikistan, between Djilikul and Mikoyanabad [Kabadian]; Uzbekistan, Golodnaya step [Gulistan], [ZISP].

SPECIMENS EXAMINED. **Tajikistan**: lectotype (designated here), ♀: "Кабadian, Таджикист., Джили-Куль, Гуссаковский, 16.VI.[1]934 // *Cerceris shestakoviana* ♀ V. Gussakovski sp. n. [handwritten by V. Gussakovskij] // Lectotype *Cerceris shestakoviana* Guss. design. Mokrousov 2016" [ZISP]; (2♀) [ZISP]. **Russia**: Astrakhan Prov., 13 km S Liman, 45.672°N 47.24°E, 25.VII 2015 (SB, VL, MM, MP), 1♀ [MC]; Kalmykia: 2 km E Evdik, 47.34°N 45.24°E, 13.VII 2015 (SB, VL, MM, MP), 1♀, 1♂ [MC]; 4 km NE Yashkul', 46.19°N 45.40°E, 16.VII 2015 (SB, VL, MM, MP), 1♀ [MC]. **Kazakhstan** (3♀, 1♂) [ZISP]. **Turkmenistan** (20♂) [ZISP]. **Uzbekistan** (paralectotypes: 1♀, 6♂; 1♀) [ZISP].

DISTRIBUTION. *Russia (Astrakhan Prov., Kalmykia), Kazakhstan, Turkmenistan, Uzbekistan, Kyrgyzstan, Tajikistan.

***Cerceris vagans* Radoszkowski, 1877**

Cerceris rufonodis Radoszkowski, 1877: 56, nom. praeocc., nec *Cerceris rufinodis* Smith, 1856, syntypes: Uzbekistan: Djizak, Tashkent [ZMMU].

Cerceris vagans Radoszkowski, 1877: 61, syntypes: Uzbekistan, Zaravshan valley, Samarkand, Tashkent, Djizak; Tajikistan, Varzaminor [ZMMU].

Cerceris turkestanica Radoszkowski, 1893: 66. Replacement name for *Cerceris rufonodis* Radoszkowski, 1877: Kazenas, 2002 (south of East Europe).

SPECIMENS EXAMINED. **Russia:** Astrakhan Prov.: 13 km S Liman, 45.672°N 47.24°E, 25.VII 2015 (SB, VL, MM, MP), 4♂ [MC]; Volzhskoe, 46.628°N 47.845°E, 26.VII 2015 (SB, VL, MM, MP), 8♀, 18♂ [MC, ZISP]; Dagestan, 17 km SSW Artezian, Kuma riv., 44.935°N 46.455°E, 19–20.VII 2015 (SB, VL, MM, MP), 4♀, 22♂ [MC, ZISP]; Kalmykia: 4 km NE Yashkul', 46.19°N 45.40°E, 16.VII 2015 (SB, VL, MM, MP), 2♀, 3♂ [MC]; 2 km E Evdik (3 km SSE Tsagan-Nur), 47.34°N 45.24°E, 13.VII 2015 (SB, VL, MM, MP), 1♀, 5♂ [MC]. **Turkmenistan** (15♀, 20♂) [ZISP]. **Uzbekistan** (4♀, 8♂) [MC, ZISP].

DISTRIBUTION. *Russia (Astrakhan Prov., Dagestan, Kalmykia), Turkey, United Arab Emirates, Iran, Afghanistan, Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan, Pakistan.



Figs 1–4. *Cerceris* spp. 1, 2 – *Cerceris shestakoviana*, ♀, lectotype: 1 – habitus, lateral view; 2 – labels; 3, 4 – *C. vitticollis*, ♀, lectotype 3 – habitus, lateral view; 4 – labels.

Cerceris vitticollis F. Morawitz, 1894

Figs 3, 4

Cerceris vitticollis F. Morawitz, 1894: 348, ♀, syntypes, Turkmenistan, "Serax": Shorenko, 2005 (Crimea), 2009 (Crimea) [ZISP].

SPECIMENS EXAMINED. **Turkmenistan:** lectotype (designated here), ♀: "Serachs. Glasun[ov]. // к. Ф Моравица // *Cerceris vitticollis* ♀ F. Moraw. [handwritten by F. Morawitz] // Lectotype *Cerceris vitticollis* F. Mor. design. Mokrousov 2016" [ZISP]; paralectotypes, 2♀ [ZISP]. **Russia:** Astrakhan Prov., near Volzhski vill., 46.965°N 47.53°E,

26–27.V 2016 (MM), 15♀, 39♂ [MC, ZISP]. **Kazakhstan** (1♀, 2♂). **Uzbekistan** (1♀). **Tajikistan** (1♀).

DISTRIBUTION. Russia (*Astrakhan Prov., Crimea), Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan.

Tribe Philanthini

Genus *Philanthus* Fabricius, 1790

Philanthus desertorum (F. Morawitz, 1890)

Anthophilus desertorum F. Morawitz, 1890: 607, ♀, holotype, [Turkmenistan], bei Repetek, 15.04 1889, A. Semenov, examined [ZISP].

Philanthus hellmanni: Mokrousov, 2015 (Kalmykia) [ZISP].

SPECIMENS EXAMINED. **Russia**: Kalmykia, 20 km E Khulhuta, Davsna sands, 46.292°N 46.672°E, 4.VIII 2014 (MM), 2♂ [MC]. **Turkmenistan** (3♂) [ZISP]. **Uzbekistan**: Baga-Abzal', 15 km N Bukhara, 17.V 1929, 21.VI 1929 (E. Kuznetsova), 1♀, 1♂ [ZISP].

DISTRIBUTION. *Russia (Kalmykia), Turkmenistan, *Uzbekistan.

Philanthus glaber Kohl, 1891

Figs 5–8

Philanthus glaber Kohl, 1891: 348, ♀, holotype, [Russia], "Sibirien", examined photos of holotype [Museum für Naturkunde, Berlin, Germany].

Philanthus rubriventris Kazenas, 1970: 366, ♀, holotype, Kazakhstan, Alma-Ata Prov., near Ili river, examined [ZISP], **syn. n.**

Philanthus kaszabi Tsuneki, 1971: 418, ♀, holotype, Mongolia, Uvs Aymag, Bagnuur [Természettudományi Múzeum, Budapest, Hungary], **syn. n.**

SPECIMENS EXAMINED. **Russia**: Altai Republic, 12 km SE of Kosh-Agach, 49.91°N 88.76°E, 1780 m, 9.VII 2016 (VL, MP), 3♀ [MC]; Buryatia: Dureny, 26–27.VI 1924 (Mikhno), 1♂ [ZISP], 13.VIII 1924 (Mikhno), 2♀ [ZISP]; Gusinoe lake, 21–22.VII 1927 (Mikhno), 1♀ [ZISP]. **Kazakhstan** (8♀, 1♂) [ZISP]. **Mongolia** (4♀) [ZISP]. **China**: Huang He valley [Inner Mongolia, between Denkou and Baotou], 1871 (N. Przhevalskiy), 1♂ [ZISP]; Alashan, Dingyuanying [Inner Mongolia, now Bayanhot], 16.V–3.VI 1908 (P.K. Kozlov), 2♀, 2♂ [ZISP].

DISTRIBUTION. Russia (*Altai Republic, *Buryatia, Zabaikalskiy Terr.), Kazakhstan, Mongolia, *China (Inner Mongolia).

Tribe Pseudoscoliini

Genus *Pseudoscolia* Radoszkowski, 1876

Pseudoscolia corporica Kazenas, 1994

Pseudoscolia corporica Kazenas, 1994a: 73, ♀, ♂, holotype, ♀, Turkmenistan, Uch-Adzhi [ZISP].

SPECIMENS EXAMINED. **Turkmenistan** (holotype, ♀; paratypes: 1♀, 2♂) [ZISP]. **Russia**: Astrakhan Prov., Dosang, 46.911°N 47.926°E, 7.VI 2016 (MM), 2♀, 3♂ [MC].

DISTRIBUTION. *Russia (Astrakhan Prov.), Turkmenistan.

REMARK. The specimens from Russia have less developed light coloration.



Figs. 5–8. *Philanthus glaber*, ♀, holotype. 5 – habitus, lateral view; 6 – habitus, dorsal view; 7 – head, frontal view; 8 – labels. (Photos by Lukas Kirschey).

***Pseudoscolia fronticalis* Kazenas, 1994**

Pseudoscolia fronticalis Kazenas, 1994b: 37, ♀, ♂, holotype, ♀, Kazakhstan, Kyzylkum Desert 10 km SW Chardary [ZISP].

SPECIMENS EXAMINED. **Russia:** Astrakhan Prov., near Volzhski vill., 46.965°N 47.53°E, 26–27.V 2016 (MM) 1♀, 5♂ [MC, ZISP]. **Kazakhstan** (holotype, ♀; paratypes, 3♂; 1♀) [ZISP]. **Turkmenistan** (1♀) [ZISP].

DISTRIBUTION. *Russia (Astrakhan Prov.), Kazakhstan, Turkmenistan.

***Pseudoscolia simplicicornis* (F. Morawitz, 1894)**

Anthophilus variegatus F. Morawitz, 1889: 155, ♀, holotype "Mongolia, Tyfun [China, western part of Inner Mongolia]", examined [ZISP], junior secondary homonym of *Philanthus variegatus* Spinola, 1839.

Philanthus simplicicornis F. Morawitz, 1894: 356, replacement name for *Philanthus variegatus* (F. Morawitz, 1889).

Pseudoscolia simplicicornis: Nemkov, 1990 (Zabaikalskiy Terr.); Kazenas, 2002 (south of East Europe), 2004 (European part of Russia, probably Volgograd Prov.; Siberia); Nemkov, 2009 (Zabaikalskiy Terr.).

SPECIMENS EXAMINED. **Mongolia** (holotype, ♂; 16♀, 43♂) [ZISP]. **Ukraine:** Kher-son Reg., Aleshky sands, 29.VI 1930 (S. Medvedev), 1♂ [ZISP]. **Russia:** Astrakhan Prov.:

near Volzhski vill., 46.965°N 47.53°E, 27.V 2016 (MM), 2♂ [MC]; Dosang, 46.911°N 47.926°E, 8.VI 2016 (MM), 2♂ [MC]; near Lapas vill., 46.976°N 47.846°E, 7.VI 2016 (MM), 2♀, 7♂ [MC]; Dagestan, 17 km SSW Artezian, Kuma riv., 44.935°N 46.455°E, 3–4.V 2016 (MM), 4♀, 17♂ [MC, ZISP]; Kalmykia, 20 km E Khulhuta, Davsna sands, 46.292°N 46.672°E, 28–30.VII 2015 (MM), 3♀, 16♂ [MC, ZISP]; Volgograd Prov.: “Sarepta” (now Volgograd), 9.VI 1909 (M. Koch), 1♂ [ZISP], 1♀ (L. Vol'man) [ZISP]; 16 km NNE Kalachon-Don, 48.838°N 43.603°E, 11.VII 2015 (SB, VL, MM, MP), 1♀ [MC]; Zabaikalskiy Terr., Shuguy vill., Tchikoy riv., 15.VII 1925 (Mikhno), 1♂ [ZISP]. **Kazakhstan** (9♀, 7♂) [ZISP]. **Turkmenistan** (4♀, 12♂) [ZISP]. **Uzbekistan** (5♀, 4♂) [ZISP].

DISTRIBUTION. Russia (*Astrakhan Prov., *Dagestan, *Kalmykia, Volgograd Prov., Zabaikalskiy Terr.), *Ukraine, Kazakhstan, Turkmenistan, Uzbekistan, Mongolia, China (Inner Mongolia).

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